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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/077,665	02/14/2002	Garrett Andrew Smith		2982	
7:	590 08/27/2003		·		
Garrett A. Smith			EXAMINER		
1365 Bishop Street San Luis Obispo, CA 93401			CHARLES,	CHARLES, MARCUS	
			ART UNIT	PAPER NUMBER	
			3682		
			DATE MAILED: 08/27/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/077,665	SMITH, GARRETT ANDREW				
Office Action Summary	Examiner	Art Unit				
	Marcus Charles	3682				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).  Status	36(a). In no event, however, may a reply be ti y within the statutory minimum of thirty (30) da vill apply and will expire SIX (6) MONTHS fror , cause the application to become ABANDON	mely filed  ys will be considered timely. n the mailing date of this communication. ED (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on 14 F	ebruary 2002 .					
2a)☐ This action is <b>FINAL</b> . 2b)⊠ Th	is action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 1-12 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-12</u> is/are rejected.						
7) Claim(s) is/are objected to.	r clastian requirement					
8) Claim(s) are subject to restriction and/or election requirement.  Application Papers						
9) The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>14 February 2002</u> is/are: a)□ accepted or b)⊠ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12)☐ The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
<ul> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) ☐ The translation of the foreign language provisional application has been received.  15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informa	ry (PTO-413) Paper No(s) I Patent Application (PTO-152)				

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#### **DETAILED ACTION**

This is the first action relating to serial application number 10/077,665, filed 02-12-2002. Claims 1-12 are currently pending.

## **Drawings**

- 1. The draftsman has approved the drawing filed with this application.
- 2. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, "the tool interface means of the bolt and nut having different sizes" and "the tool interface means of the nut faces outside the crank handle" as in claims 3, 6, 9 and 11, respectively, must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

### Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claim 1-2, 4-5, 7-8, 10 and 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over WO(9308071) in view of Kirrish(4,310,273). WO(9308071) discloses a fastener assembly (107,109) for attaching a chainring to a bicycle, the device comprising a nut (107) comprising an internally threaded cylinder, an external flange

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unison.

(not labeled) on one end and a hole in the cylinder; a bolt (109) threadedly engages the nut and comprising a tool interface (not labeled) formed inside the shaft. WO(9308071) dose not disclose a tool interface means formed inside the cylinder. Kirrish discloses a fastener system (20) comprising a nut (34) having a threaded cylinder (44) and a tool interface means (58) formed in the cylinder in order to facilitate proper alignment between the bolt and nut thus minimizing cross-threading before tighten the fastening device and to allow quick and easy removal without the bolt and nut turning in unison. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the fastening device of WO(9308071) so that the nut has a tool interface in the threaded cylinder in view of Kirrish in order to facilitate proper alignment between the bolt and nut thus minimizing cross-threading before tighten the fastening device and to allow quick release and by fastening/turning the bolt and nut simultaneously and to allow quick and easy removal without the bolt and nut turning in

In claim 2, it is apparent that the tool interface (56, 58) are of the same size and shape.

In claim 10, not the tool interface of the nut faces the out side of the crank handle

5. Claims 3, 6 and 9 rejected under 35 U.S.C. 103(a) as being unpatentable over

WO(9308071) in view of Kirrish. WO(9308071) and Kirrish do disclose that the tool

interface means are different is size. It would have been obvious to one of ordinary skill

in the art at the time of the invention to modify the fastening device of WO(9308071) in

view of Kirrish so that the tool interfaces are of different size, since such a modification

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would have been a matter of design choice, and such a modification would involve a mere change in weight and cost of manufacturing. A change in size is generally recognized as being within the level of ordinary skill in the art. In Rose, 105 USPQ 237 (CCPA 1955)

6. Claims 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over WO(9308071) in view of Kirrish. WO(9308071) in view of Kirrish do not disclose the nut toll inter face means faces the outside of the crank handle. It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the fastening device of WO(9308071) so that the too interface means faces the outside of the crank handle, since this involves rearranging the nut and bolt to face a different direction and it has been held that rearranging parts of an invention involves only routine skill in the art. In re Japikse, 86 USPQ 70.

#### Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Dzus (2,511,051), disclose a fastening device with a tool interfaces means inserting a tool. Conte (5,454,676) and Rebish (4,490,083) disclose a fastening device with a tool interface means on the nut and bolt. Edwards (5,766,106) and Yang (5,782,713) and JP(05-330,479) disclose a crankset assembly.

Mohr(1,967,039) disclose a fastening device with a bolt threadedly engaged to a nut.

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8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marcus Charles whose telephone number is (703) 305-6877. The examiner can normally be reached on Monday -Thursday 7:30 am-600 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Bucci can be reached on (703) 308-3668. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-2168.

Marcus Charles
Primary Examiner
Art Unit 3682
August 21, 2003

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